

Amendments to the Claims:

This listing of claims replaces all prior versions and listings of claims in this application.

Listing of Claims:

Claim 1. (Currently amended) ~~An aircraft arrangement of~~ A self-propelled Mini or Micro UAV configured for operating at Reynolds numbers in the range between about 20,000 and about 300,000, and comprising a fore wing and an aft wing in tandem close-coupled arrangement, wherein said aft wing has side panels and control surfaces on at least one of said aft wing and said side panels, and tapered planform with positive sweep, said fore wing has non-positive trailing edge sweep, the fore wing and aft wing being disposed at different heights, and said arrangement being free of additional wings or tail arrangement.

Claim 2. (Currently amended) The ~~aircraft arrangement~~ UAV of claim 1, wherein said fore wing has straight trailing edges with negative sweep angle.

Claim 3. (Currently amended) The ~~aircraft arrangement~~ UAV of claim 2, wherein said fore wing has negative sweep.

Claim 4. (Currently amended) The ~~aircraft arrangement~~ UAV of claim 1, further comprising a fuselage.

Claim 5. (Currently amended) The aircraft arrangement UAV of claim 4, wherein said fore wing is mounted on the upper side of said fuselage on at least one pylon.

Claim 6. (Currently amended) The aircraft arrangement UAV of claim 5, wherein said fore wing is disposed higher than said aft wing at least by the length of an average aft wing chord.

Claim 7. (Currently amended) The aircraft arrangement UAV of claim 1, wherein said fore wing and said aft wing partially overlap each other in plan view.

Claim 8. (Currently amended) The aircraft arrangement UAV of claim 1, wherein said tandem arrangement of said fore wing and said aft wing has an overall width W and an overall length L including any control surfaces of said UAV, and the sum of planform wing areas of said tandem arrangement is at least 70% of the product W x L.

Claim 9. (Currently amended) The aircraft arrangement UAV of claim 1, wherein the fore wing, the aft wing and other elements of said UAV are disposed so as to provide longitudinal aerodynamic stability.

Claim 10. (Currently amended) The aircraft arrangement UAV of claim 9, wherein said arrangement has positive pitching moment at zero lift.

Claim 11. (Currently amended) The aircraft arrangement UAV of claim 1, wherein at least one of said aft wing and said fore wing has rounded tips.

Claim 12. (Currently amended) The aircraft arrangement UAV of claim 1, wherein at least a portion of the trailing edge of said aft wing has negative or positive sweep angle.

Claim 13. (Currently amended) The aircraft arrangement UAV of claim 1, wherein said aft wing has aspect ratio between 2.5 and 4.

Claim 14. (Currently amended) The aircraft arrangement UAV of claim 1, wherein said fore wing has aspect ratio between 3 and 5.

Claim 15. (Currently amended) The aircraft arrangement UAV of claim 1, wherein planform areas of the aft wing and the fore wing are in ratio between 2:1 and 1:1.

Claim 16. (Currently amended) The aircraft arrangement UAV of claim 1, wherein said aft wing has control surfaces comprise rudder control surfaces on [[its]] said side panels.

Claim 17. (Currently amended) The aircraft arrangement UAV of claim 1, wherein said fore wing has side panels.

Claim 18. (Currently amended) The aircraft arrangement UAV of claim 17, wherein said fore wing has rudder control surfaces on its side panels.

Claim 19. (Currently amended) The ~~aircraft arrangement~~ UAV of claim 1, wherein said fore wing has control surfaces.

Claim 20. (Currently amended) The ~~aircraft arrangement~~ UAV of claim 1, wherein said self-propelled UAV has a tractor propeller mounted in front of said tandem arrangement.

Claim 21. (Currently amended) The ~~aircraft arrangement~~ UAV of claim 1, wherein at least one of said fore wing and said aft wing has non-zero dihedral angle.

Claim 22. (Previously presented) The ~~aircraft arrangement~~ UAV of claim 21, wherein the dihedral angles of the fore wing and of the aft wing are such that the vertical distance between wing tips of said fore wing and said aft wing is greater than the vertical distance between their respective wing roots.

Claim 23. (Currently amended) The ~~aircraft arrangement~~ UAV of claim 1, wherein said aft wing has twist.

Claim 24. (Currently amended) The ~~aircraft arrangement~~ UAV of claim 1, wherein said fore wing has twist.

Claim 25. (Currently amended) The ~~aircraft arrangement~~ UAV of claim 1, wherein said aft wing has positive angle of incidence.

Claim 26. (Currently amended) The ~~aircraft arrangement~~ UAV of claim 1, wherein said aft wing has airfoil sections with positive zero lift pitching moment.

Claim 27. (Currently amended) The ~~aircraft arrangement~~ UAV of claim 1, wherein the fore wing, the aft wing and other elements of said UAV are disposed so as to provide longitudinal aerodynamic instability.

Claim 28. (Currently amended) The ~~aircraft arrangement~~ UAV of claim 27, wherein said self-propelled UAV has a pushing propeller mounted after said tandem arrangement.

Claim 29. (Currently amended) The ~~aircraft arrangement~~ UAV of claim 27 having negative pitching moment at zero-lift.

Claim 30. (Currently amended) ~~An aircraft arrangement of~~ A self-propelled Mini or Micro UAV configured for operating at Reynolds numbers in the range between about 20,000 and about 300,000 and comprising a fore wing and an aft wing in tandem close-coupled arrangement, wherein said aft wing has side panels and control surfaces on at least one of said aft wing and said side panels, and tapered planform with positive sweep, said fore wing has non-positive trailing edge sweep, the fore wing and aft wing being disposed at different heights, and said arrangement being free of additional wings or tail arrangement, and wherein a planform area of the aft wing is not less than a planform area of the fore wing.

Claim 31. (Currently amended) The aircraft arrangement of UAV according to claim 30, wherein planform areas of the aft wing and the fore wing are in ratio between 2:1 and 1:1.

Claim 32. (New) The UAV according to Claim 30, wherein said tandem arrangement of said fore wing and said aft wing has an overall width W and an overall length L including any control surfaces of said UAV, and the sum of planform wing areas of said tandem arrangement is at least 70% of the product $W \times L$.

Claim 33. (New) The UAV according to claim 30, wherein said UAV is a micro-UAV and has at least one of a maximum longitudinal length and a maximum wingspan not greater than about 15cm.

Claim 34. (New) The UAV according to claim 30, wherein said UAV is a mini-UAV and has at least one of a maximum longitudinal length and a maximum wingspan between about 20cm and about 1.2m.

Claim 35. (New) The UAV according to claim 1, wherein said UAV is a micro-UAV and has at least one of a maximum longitudinal length and a maximum wingspan not greater than about 15cm.

Claim 36. (New) The UAV according to claim 1, wherein said UAV is a mini-UAV and has at least one of a maximum longitudinal length and a maximum wingspan between about 20cm and about 1.2m.

Claim 37. (New) A self-propelled Mini or Micro UAV configured for operating at least at flight speeds in the range between about 10m/s to about 20 m/s, and comprising a fore wing and an aft wing in tandem close-coupled arrangement, wherein said aft wing has side panels and control surfaces on at least one of said aft wing and said side panels, and tapered planform with positive sweep, said fore wing has non-positive trailing edge sweep, the fore wing and aft wing being disposed at different heights, and said arrangement being free of additional wings or tail arrangement.